

CITY OF CINCINNATI BUILDING AND ZONING

Residential Code of Ohio Energy Code Requirements

Section 1101.2, compliance of the Residential Code of Ohio (RCO) provides three different methods to demonstrate energy code compliance for 1-, 2-, and 3- family residential dwellings. Please check applicable design method chosen below.

Compliance with the International Energy Conservation Code (IECC):

- ☐ Prescriptive option Table 402.1.1 & 402.1.2
- ☐ Total UA option Section 402.1.4
- ☐ Performance option Section 405

Compliance with Chapter 11 of the RCO:

- ☐ RCO Sections 1101-1104 (which contains a prescriptive option – Table 1102.1)
- ☐ Total UA option Section 1102.1.3

Compliance with The Ohio Home Builder's Association (OHBA) Alternative Energy Code Option Section 1105 of the RCO:

- ☐ Compliance Path #1 Tables 1105.2.1 & 1105.2.1.2
- ☐ Compliance Path #2 Tables 1105.2.1 & 1105.2.1.2

Notice:

Permanent Certificate is required with all methods of compliance.

Job Address:

Printed Name

Signature

Date

CITY OF CINCINNATI BUILDING AND ZONING

Residential Code of Ohio Air Tightness Requirements

The Residential Code of Ohio (RCO) Chapter 11 requires air tightness verification for the building and any air handler or ducts outside the conditioned spaces. Please check applicable methods chosen below. *Verification Report required.*

Building Air Leakage: (choose one of two options)

- ☐ Visual Inspection
(This option is not available to those using the IECC Performance method or the OHBA Energy compliance method)
- ☐ Blower Door Test

Duct Leakage Requirements: (choose one of three options)

- ☐ Duct testing is not required. Air handler and ducts are located within the conditioned spaces.
- ☐ Post-Construction Duct Tightness (If selected choose one method below)
 - ☐ Leakage to outdoors method
 - ☐ Total leakage method
- ☐ Rough-in Duct Tightness (If selected choose one method below)
 - ☐ Total Leakage with Air Handler Installed
 - ☐ Total Leakage without Air Handler Installed

Job Address:

Printed Name

Signature

Date

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Third Party Visual Inspection form

ENERGY EFFICIENCY AIR BARRIER AND INSULATION INSPECTION CHECKLIST

For compliance with the 2013 Residential Code of Ohio (RCO) Section 1102.4.2.2 Visual Inspection Option and Table 1102.4.2 or 2009 IECC Visual Inspection Option and Table 402.4.2.

Job Address: _____

√ IN COMPLIANCE	COMPONENT	CRITERIA
	Building Envelope	The correct building envelope insulation R-value/U-factor, fenestration U-factor, and duct system R-value are installed.
	Air barrier and thermal barrier	Exterior thermal envelope insulation for framed walls is installed in substantial contact and continuous alignment with building envelope air barrier. Breaks or joints in the air barrier are filled or repaired. Air-permeable insulation is not used as a sealing material. Air-permeable insulation is inside of an air barrier.
	Ceiling/Attic	Air barrier in any dropped ceiling/soffit is substantially aligned with insulation and any gaps are sealed. Attic access (except unvented attic), knee wall, door, or drop down stair is sealed.
	Walls	Corners and headers are insulated. Junction of foundation and sill plate is sealed. Correct R-value insulation and U-factor Fenestration is installed.
	Windows and doors	Space between window./door jambs and framing is sealed.
	Rim Joists	Rim Joists are insulated and include an air barrier.
	Floors (including above garage and cantilevered floors)	Insulation is installed to maintain permanent contact with underside of subfloor decking. Air barrier is installed at any exposed edge of floor/insulation.
	Crawlspace walls	Insulation is permanently attached to walls. Exposed earth in unvented crawlspaces is covered with Class I vapor retarder with overlapping joints taped.
	Shafts, penetrations	Duct shafts, utility penetrations, knee walls and flue shafts opening to exterior or unconditioned space are sealed.
	Narrow cavities	Batts in narrow cavities are cut to fit, or narrow cavities are filled by sprayed/blown insulation.
	Garage separation	Air sealing is provided between the garage and conditioned spaces.
	Recessed Lighting	Recessed light fixtures are airtight, IC rated and sealed to drywall. Exception – fixtures in conditioned spaces.
	Plumbing and Wiring	Insulation is placed between outside and pipes. Batt insulation is cut to fit around wiring and plumbing, or sprayed/blown insulation extends behind piping and wiring.
	Shower/Tub on exterior wall	Showers and tubs on exterior walls have insulation and an air barrier separating them from the exterior wall.
	Electrical/Phone boxes on exterior wall	Air barrier extends behind boxes or air sealed type boxes are installed.
	Common wall	Air barrier is installed in common wall between dwelling units.
	HVAC register boots	HVAC register boots that penetrate building envelope are sealed to subfloor or drywall.
	Fireplace	Fireplace walls include an air barrier.

By signing below, I verify the components listed above have been installed per the above criteria, the approved plans, Certification of Plan Approval, and the 2013 RCO or 2009 IECC as applicable. Note: This completed form is required to be submitted to the City of Cincinnati Building Department for review prior to requesting a final inspection.

Verifier (Print Name): _____

(Signature): _____

Date: _____

Company: _____

Address: _____

City/State: _____

Phone: _____